CENTER FOR ADVANCED COMBUSTION CONTRACT AMOUNT: \$500,000 ENGINEERING RESEARCH
L. Douglas Smoot, Brigham Young University

The main focus is on development of new combustion technology that will improve the U.S. competitive position in the international market, with an emphasis toward the clean and efficient use of low-grade fossil fuels, particularly coal.

Matching Funds: Source	<u>In-Kind</u>	Cash
Advanced Fuel Research Inc. Air Force Angus Chemical Babcock and Wilcox Chevron Research Combustion Engineering Inc. Consolidation Coal Convex Computer Corp. Coordinating Research Council Corning Glass Works Dow Chemical USA Electric Power Research Instit Empire State Electric Energy EPA Foster Wheeler Corporation Gas Research Institute Ganeral Electric Corporation General Motors Corporation Idaho National Engineering Lat Los Alamos National Laboratory Morgantown Energy Technology National Institute of Health National Science Foundation National Science Foundation National Science Foundation Opittsburgh Energy Technology Pratt & Whitney Pyropower Corporation Shell Development Southern California Edison Cor Tennessee Valley Authority TRW Utah Power & Light	enter Grant #2) Center	\$ 2,000,000 150,435 495,000 655,000 655,000 131,600 131,3600 131,3600 131,3600 131,3600 131,3600 131,3600 131,3600 131,3600 131,000
	TOTAL	\$15,303,026

Companies Associated Since Contract (14)
Convex Computer Corporation
Gas Research Institute
General Electric Corporation

Chevron Research
Corning Glass Works
Dow Chemical USA
Idaho National Engineering Lab
General Motors Corp.
Pyropower Corp.
Questar Corp.
Shell Development
Southern California Edison
TRW Inc.
Los Alamos National Laboratory

In-State Industrial Associations: Combustion Lab Eyring Research Institute Hercules Inc. Questar Development Utah Power & Light

Out-of-State Associations: Advanced Fuel Research Inc. Allison Gas Turbine ANL Babcock and Wilcox Battelle Memorial Institute Bertin and Cie (France) British Gas Corporation Chevron Research Co. Coen Company Combustion Engineering Inc. Conoco Coal & Chemicals Co. Convex Computer Corp. Corning Glass Works DOE/METC DOE/PETC Dow Chemical USA Electric Power Research Institute Empire State Electric Energy Energiteknisk Utvekling (Sweden) **EPRI** EVT Exxon Eyring Research Institute Foster Wheeler Corporation Gas Research Institute General Electric Co. Harwell Hercules Hitachi America Ltd. IHI Heavy Industries IRSID Kaiser Coal Corporation

Kobe Steel (Japan) Laboratoires du Cherchar (France) LANL Los Alamos National Laboratory MIT ilt. Energy Resources Morgantown Energy Technology Center NASĂ NRRI Nuclear Technical Services Phillips Petroleum Co.
Pittsburgh Energy Technology Center
Questar Development Corp.
Research Institute (Sweden)
Rockwell International Sandia National Laboratories Shell Development Southern California Edison Company Standard Oil Tennessee Valley Authority Utah Power & Light Wayne State University

## Center for Advanced Combustion Research Contract #87-0350

Pauments: Amount Balance 01 May 86 \$500,000 -0-

Total Payments: \$500,000

CENTER FOR COMPUTER INTEGRATED (Sub-Contract From USU in MANUFACTURING the amount of \$132,000)
Dell K. Allen. Brigham Young University\_\_\_\_

The main focus is on development and application of software, hardware, and courseware, required for manufacturing systems integration; including software for variant and generative process planning, knowledge-based systems, electronic component selection and a shop-floor data collection system.

Matching Funds: Source		<u>In-kind</u>	Cash
Hewlett Packard DCLASS Software Royalties Avco Lycoming Avco Lycoming Autodesk		\$1,000	15.000 9.600 125.555 40,000
Textron Lycoming			160,000
:	Subtotals	\$1,000	\$350,155
		TOTAL	\$351,155

Companies Associated Since Contract (8)
Berrett Consulting
Infoquest
Visher
Hewlett Packard
Avco Lycoming
Reliance Electric
Autodesk Inc.
Textron Lycoming

In-State Industrial Associations:
Berrett Consulting
Boeing
Cam Software Inc. \*
Caterpillar
Cessna Aircraft
Clark Equipment
CTC\*
Digital and Management Technologies Inc.
EchoSystems
E-Soft
Evans & Sutherland Corp.
Infoquest
Morton-Thiokol
MTI
Rayethon
Smartware\*
Tolman Engineering